

**Functions in Pieces I**  Name:

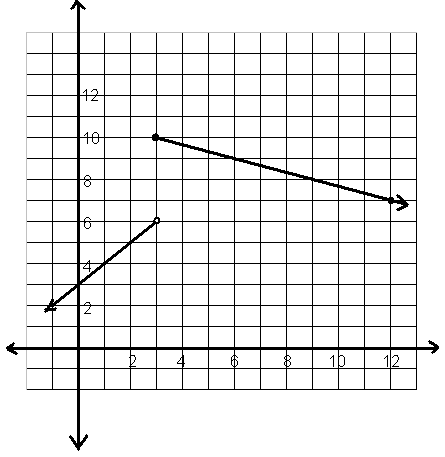
Rodriguez/Adv Algebra

1. On a pair of axes, graph:

2. Evaluate *f*(5).

For problems 3-5, use the graph to the right.



3. What is the equation of the function *h*(*x*)?

4. Evaluate *h*(3).

5. Evaluate *h(11)****.***

6. At the beginning of class, Hamadi gets up to sharpen his pencil. He walks to the trashcan, stands still while sharpening his pencil, and then hurries back to his seat to start his class work. The piecewise defined function below represents his distance in meters from his seat, after x seconds.

a) What are the domain and the range of this function?

b) Graph this function below.

c) Evaluate *f*(3) and explain what *f*(3) means in the context of this situation.

d) How far is Hamadi from his desk after 5 seconds? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

e) Label the point on your graph that represents when Hamadi stops sharpening his pencil and begins to walk back to his seat.

